



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : CALLEN et al. ) Group Art Unit: 2816  
Application No.: 10/517,546 ) Examiner: N/A  
Filed: December 10, 2004 ) Atty. Docket No. 23003-0001  
For: A CONTROL CIRCUIT AND A METHOD FOR ELECTRICALLY  
CONNECTING A LOAD TO A POWER SOURCE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

SIR:

The following are included with this Information Disclosure Statement:

- ☒ **A. PTO/SB/08**
- ☐ **B. CERTIFICATION**  
(37 C.F.R. 1.97(c)-before final Office Action or allowance)
- ☐ **C. \$180.00 FEE PAYMENT**  
(37 C.F.R. 1.97(c)-before final Office Action or allowance)
- ☐ **D. \$180.00 PETITION, CERTIFICATION & PETITION FEE  
PAYMENT**  
(37 C.F.R.1.97(d)-before issue fee payment)

The following are submitted in the above-identified application in  
compliance with 37 CFR 1.98:

- ☐ **I. A copy of each listed U.S. Patent and U.S. Patent application  
publication [1.98(a)(2)(i)].**
- ☒ **II. A copy of each listed foreign patent and/or published foreign patent  
application. For each listed foreign patent and/or published foreign  
patent application [1.98(a)(2)]:**
  - ☒ **a) the English language version or an English translation if not  
published in English, if available (see PTO-1449)[1.98(a)(3)];  
and/or**

- ☐ b) U.S. counterpart patents or English language equivalents of the foreign patents or published foreign patent applications (see PTO-1449); and/or
- ☐ c) a concise explanation of the relevance of the listed patents, publications or other information (see PTO-1449, foreign search report or other, attached), as it is presently understood by the person signing this disclosure, since no English translation is currently available[1.98(a)(3)].
- ☐ III. A copy of each listed publication, other than published foreign applications. For each listed publication [1.98(a)(2)]:
  - ☐ (a) an English translation, if available, when the original publication is not in the English language (see PTO-1449)[1.98(a)(3)];
  - ☐ (b) a concise explanation of the listed publications (see PTO-1449), as it is presently understood by the person signing this disclosure, since no English translation is currently available [1.98(a)(3)].
- ☐ IV. For any other listed information, a copy of the information or that portion which caused it to be listed (see PTO-1449)[1.98(a)(2)(iii)].
- ☐ V. Each listed U.S. Patent, Publication or other information that was previously cited by or submitted to the Office in a prior application, which application is relied upon for an earlier filing date under 35 U.S.C. § 120 [1.98(d)].
- ☒ VI. Copies of each listed U.S. Patent and U.S. Patent application publication are not being submitted herewith pursuant to a waiver of 37 CFR 1.98(a)(2)(i) by the USPTO on July 11, 2003 for applications filed after June 30, 2003.

This information is submitted in the above-identified application in compliance with 37 C.F.R.1.97 because:

- ☒ 1. This information disclosure is submitted within three months of the filing date of the application, or before the mailing date of the first office action on the merits of the application [1.97(b)].
- ☐ 2. This information disclosure is submitted before the mailing date of a final action in this application under 1.113[1.97(c)] and the requisite statement or fee is provided (see items 6 or 7 below).


- ☐ 3. This information disclosure is submitted before the mailing date of a notice of allowance under 1.311 [1.97(c)] and the requisite statement or fee is provided (see items 6 or 7 below).
- ☐ 4. This information disclosure is submitted after the mailing date of a final action under 1.113 [1.97(d)] and the requisite statement and fee is provided (see items 6 and 8 below).
- ☐ 5. This information disclosure is submitted after the mailing date of a notice of allowance under 1.311, but before the payment of the issue fee [1.97(d)] and the requisite statement and fee is provided (see items 6 and 8 below).
- ☐ 6. This information disclosure statement is submitted with the statement required for items 2, 3, 4 or 5 above [1.97(c), (d), (e)]:
- ☐ I, **Shawn K. Leppo**, hereby state the following:
- ☐ **Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.**
- ☐ **No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this information disclosure was known to any individual designated in 1.56(c) more than three months prior to the filing of this information disclosure statement.**
- ☐ 7. This information disclosure statement is submitted with the fee of \$180 set forth in 1.17(p) [see items 2 and 3 above]. Please charge this fee and any other fees associated with this application to Deposit Account No. 50-1059. (Please note, no fee is required for items 2 and 3 above if the Item 6 statement is provided).

Attorney Docket No. 23003-0001  
Application No.: 10/517,546

- ☐ 8. Please charge this fee and any other fees associated with this application to Deposit Account No. 50-1059.

Dated: June 24, 2005

Respectfully submitted,  
McNees Wallace & Nurick LLC

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 6

**Complete if Known**

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| First Named Inventor   | CALLEN et al.     |
| Art Unit               | 2816              |
| Examiner Name          | N/A               |
| Attorney Docket Number | 23003-0001        |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
|                        |                          | US- 6,747,856 B1                           | 06-08-2004                     | Huber et al.                                       |   |
|                        |                          | US- 2004/0075963 A1                        | 04-22-2004                     | Liu et al.   |   |
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|                        |                          | US- 6,671,144                              | 12-30-2003                     | Langford et al.                                    |   |
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**FOREIGN PATENT DOCUMENTS**

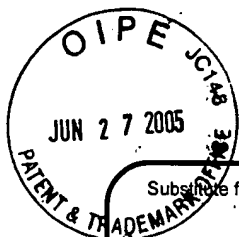
| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns,<br>Lines, Where<br>Relevant Passages<br>or Relevant Figures<br>Appear | T <sup>6</sup> |
|------------------------|--------------------------|--|--------------------------------|--|---|----------------|
|                        |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup><br>(if known) |                                |  |   |                |
|                        |                          | *See attached for Foreign Patents  |                                |  |   |                |
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Examiner  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2 of 6

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|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
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**FOREIGN PATENT DOCUMENTS**

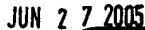
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|-------|---|----|---|
| Sheet | 3 | of | 6 |
|-------|---|----|---|

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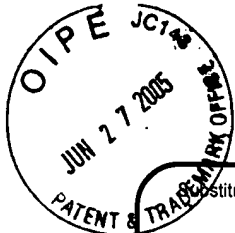
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|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
|                        |                          | US- 5,124,875                              | 06-23-1992                     | Ishii et al.                                       |   |
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|                        |                          | US- 4,712,153                              | 12-08-1987                     | Marget et al.                                      |   |
|                        |                          | US- 4,692,834                              | 09-08-1987                     | Iwahashi et al.                                    |   |
|                        |                          | US- 4,686,383                              | 08-11-1987                     | Croft  |   |
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|                        |                          | US- 4,597,025                              | 06-24-1986                     | Rutchik et al.                                     |   |
|                        |                          | US- 4,551,697                              | 11-05-1985                     | Kussy  |   |
|                        |                          | US- 4,495,538                              | 01-22-1985                     | Thomas   |   |

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| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns,<br>Lines, Where<br>Relevant Passages or<br>Relevant Figures<br>Appear | T <sup>6</sup> |
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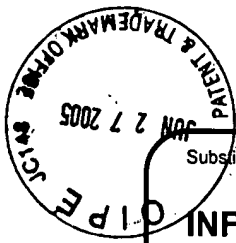
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**INFORMATION DISCLOSURE  
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Sheet 6 of 6

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| Application Number     | 10/517,546        |
| Filing Date            | December 10, 2004 |
| First Named Inventor   | CALLEN et al.     |
| Art Unit               | 2816              |
| Examiner Name          | N/A               |
| Attorney Docket Number | 23003-0001        |

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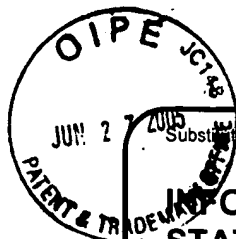
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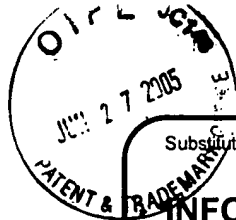
Sheet 1 of 4

**Complete if Known**

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| Filing Date            | December 10, 2004 |
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| Art Unit               | 2816              |
| Examiner Name          | N/A               |
| Attorney Docket Number | 23003-0001        |

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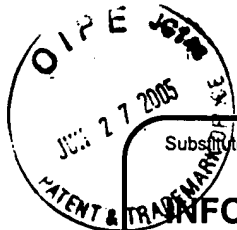
Sheet 2 of 4

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| Filing Date            | December 10, 2004 |
| First Named Inventor   | CALLEN et al.     |
| Art Unit               | 2816              |
| Examiner Name          | N/A               |
| Attorney Docket Number | 23003-0001        |

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Application Number

10/517,546

Filing Date

December 10, 2004

First Named Inventor

CALLEN et al.

Art Unit

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Examiner Name

N/A

Attorney Docket Number

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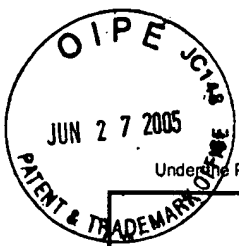
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| Application Number     | 10/517,546        |
| Filing Date            | December 10, 2004 |
| First Named Inventor   | CALLEN et al.     |
| Art Unit               | 2816              |
| Examiner Name          | N/A               |
| Attorney Docket Number | 23003-0001        |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns,<br>Lines, Where<br>Relevant Passages<br>or Relevant Figures<br>Appear | T <sup>6</sup> |
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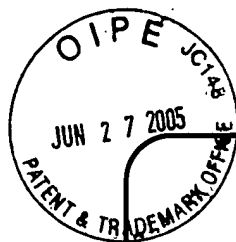
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| Filing Date                              | December 10, 2004                 |
| First Named Inventor                     | CALLEN et al.                     |
| Art Unit                                 | 2816                              |
| Examiner Name                            | N/A                               |
| Total Number of Pages in This Submission | Attorney Docket Number 23003-0001 |

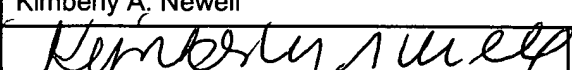
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|-------------------------|---|
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